Stat and Data Analysis Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CW 6.1

1. You work for a pharmaceutical company that has just developed a new drug that is to help people lose weight. You are interested in testing the drug in connection with a few diets. You are going to compare the diets of a low fat and low carb diet. You recruit 90 overweight volunteers to participate in the study. Each subject will be followed for 3 months.
2. What is the explanatory variable(s)? (2)
3. What is the response variable(s)? (2)
4. Would a placebo be appropriate or necessary in this case? Explain. (3)
5. What are the treatments? (3)
6. Who are the subjects/individuals? (1)
7. Design the study.(6)
8. What are some possible lurking variables? Name at least 2. (2)
9. You have 15 subjects that need to be assigned to 3 different treatments.
10. Write instructions on how to complete the randomization so that the subjects have been randomized into their respective treatment. (6)
11. Using the table of random digits to assign the 15 subjects into the three trials. Show work.(2)

05007 16632 81194 14873 04197 85576 45115 96565 68732 55159 84292 08796 43165 93739

31685 97150 45740 91807 65561 33302 07051 39086 29732 90916 96309 11238 35601 06783

14965 69675 32681 42894 42668 74963 48827 44203 61605 20982 72172 58940 46387 03321

1. Write the subjects that go into each treatment. (3)

Treatment 1 Treatment 2 Treatment 3

1. 1. 1.

2. 2. 2.

3. 3. 3.

4. 4. 4.

5. 5. 5.